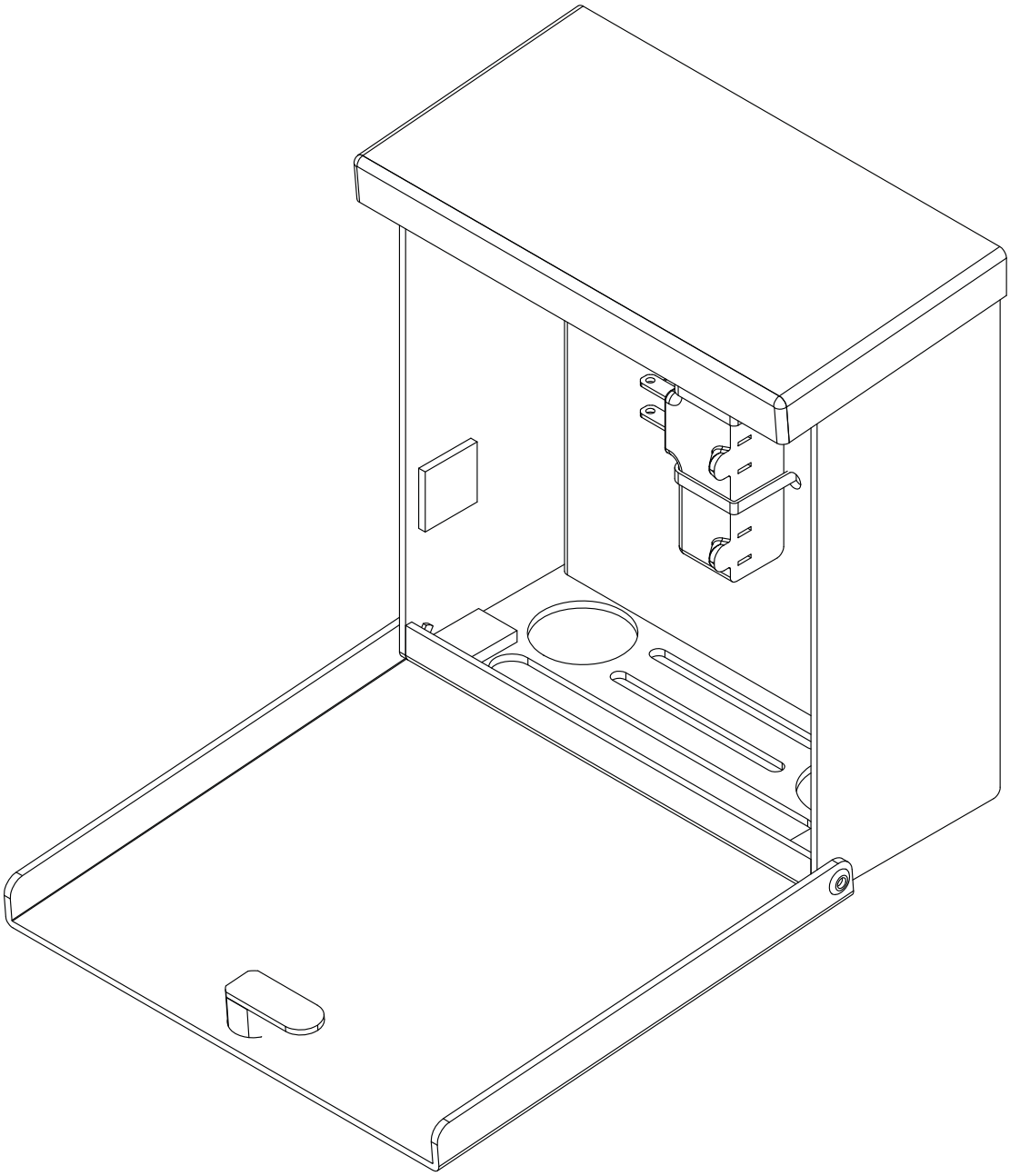
peerless-AV®

Installation and Assembly:
Outdoor Weather Resistant Enclosure

Models: HDS-OWRE-200



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ISSUED: 08-24-12 SHEET #: 180-9030-1

Note: Read entire instruction sheet before you start installation and assembly.

⚠ WARNING

- Do not begin to install your Peerless product until you have read and understood the instructions and warnings contained in this Installation Sheet. If you have any questions regarding any of the instructions or warnings, for US customers please call Peerless customer care at 1-800-865-2112, for all international customers, please contact your local distributor.
- This product should only be installed by someone of good mechanical aptitude, has experience with basic building construction, and fully understands these instructions.
- Due to outdoor environmental conditions such as heavy snow, hail, rain, etc. the environmental mount and hardware must be inspected at least once a year. This product should not be exposed to high winds. A qualified installer or inspector must check for signs of rust, loose fasteners, bent metal, etc. If evidence of excessive wear, deterioration or any unsafe condition is observed, this product must be taken out of service immediately. Direct all inquiries to customer care if you have any questions.
- Make sure that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.
- Never exceed the Maximum Load Capacity. See page one.
- If mounting to wood wall studs, make sure that mounting screws are anchored into the center of the studs. Use of an "edge to edge" stud finder is highly recommended.
- Always use an assistant or mechanical lifting equipment to safely lift and position equipment.
- Tighten screws firmly, but do not overtighten. Overtightening can damage the items, greatly reducing their holding power.
- This product was designed to be installed on the following wall construction only;

WALL CONSTRUCTION	HARDWARE REQUIRED
• Wood Stud	Included
• Wood Beam	Included
• Solid Concrete	Included
• Cinder Block	Included
• Metal Stud	Contact Qualified Professional
• Brick	Contact Qualified Professional
• Other or unsure?	Contact Qualified Professional

Tools Needed for Assembly

- stud finder ("edge to edge" stud finder is recommended)
- phillips screwdriver
- drill
- 5/16" (8mm) bit for concrete and cinder block wall
- 5/32" (4mm) bit for wood stud wall
- level
- 7/16" open end wrench
- 5mm allen wrench
- 6mm allen wrench

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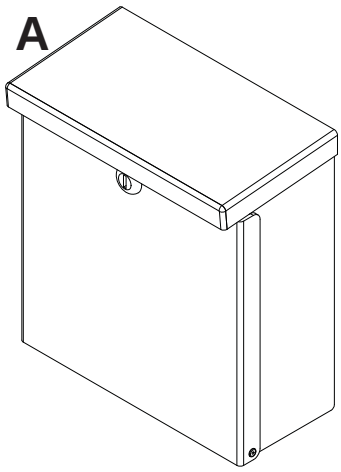
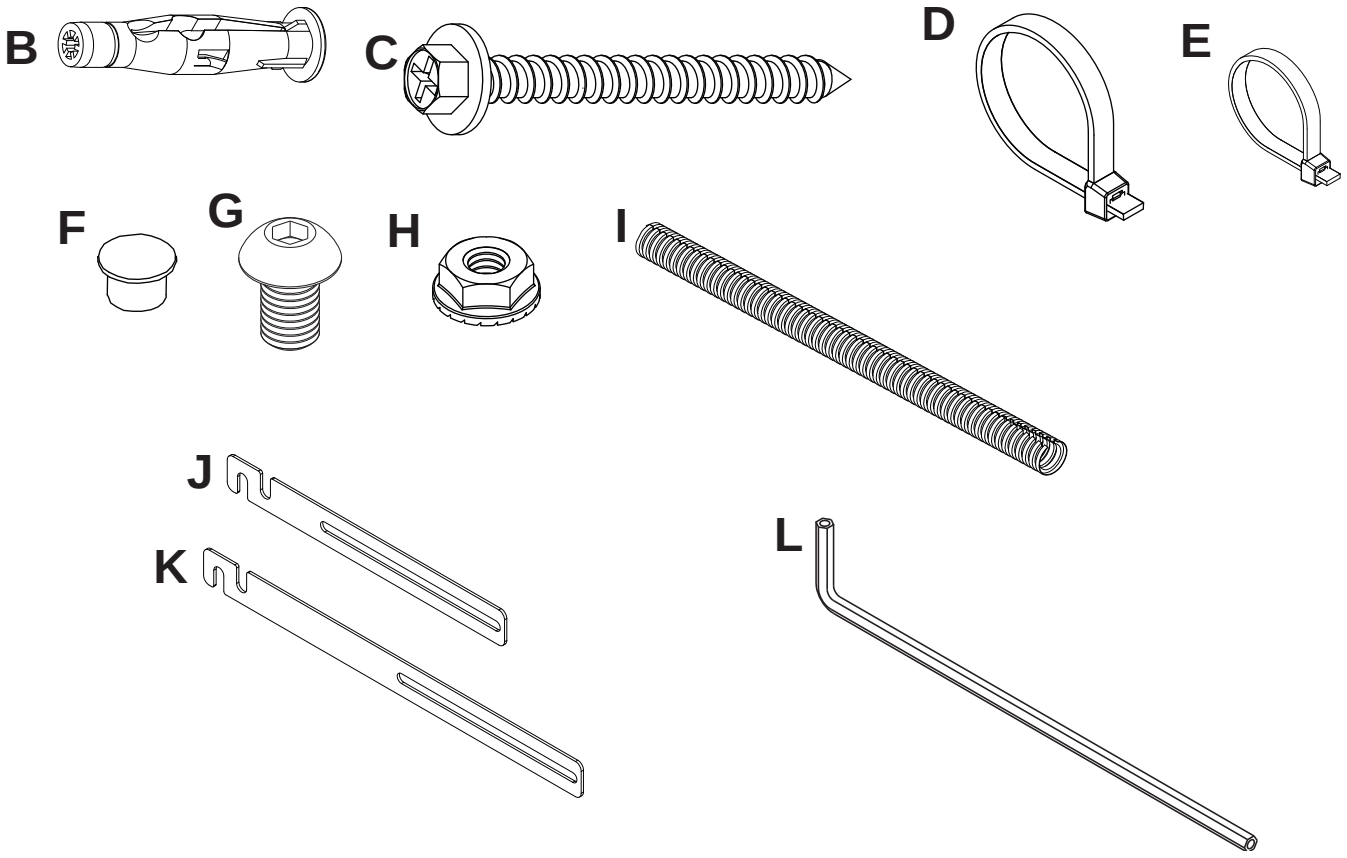
Before you begin, make sure all parts shown are included with your product.

Parts List

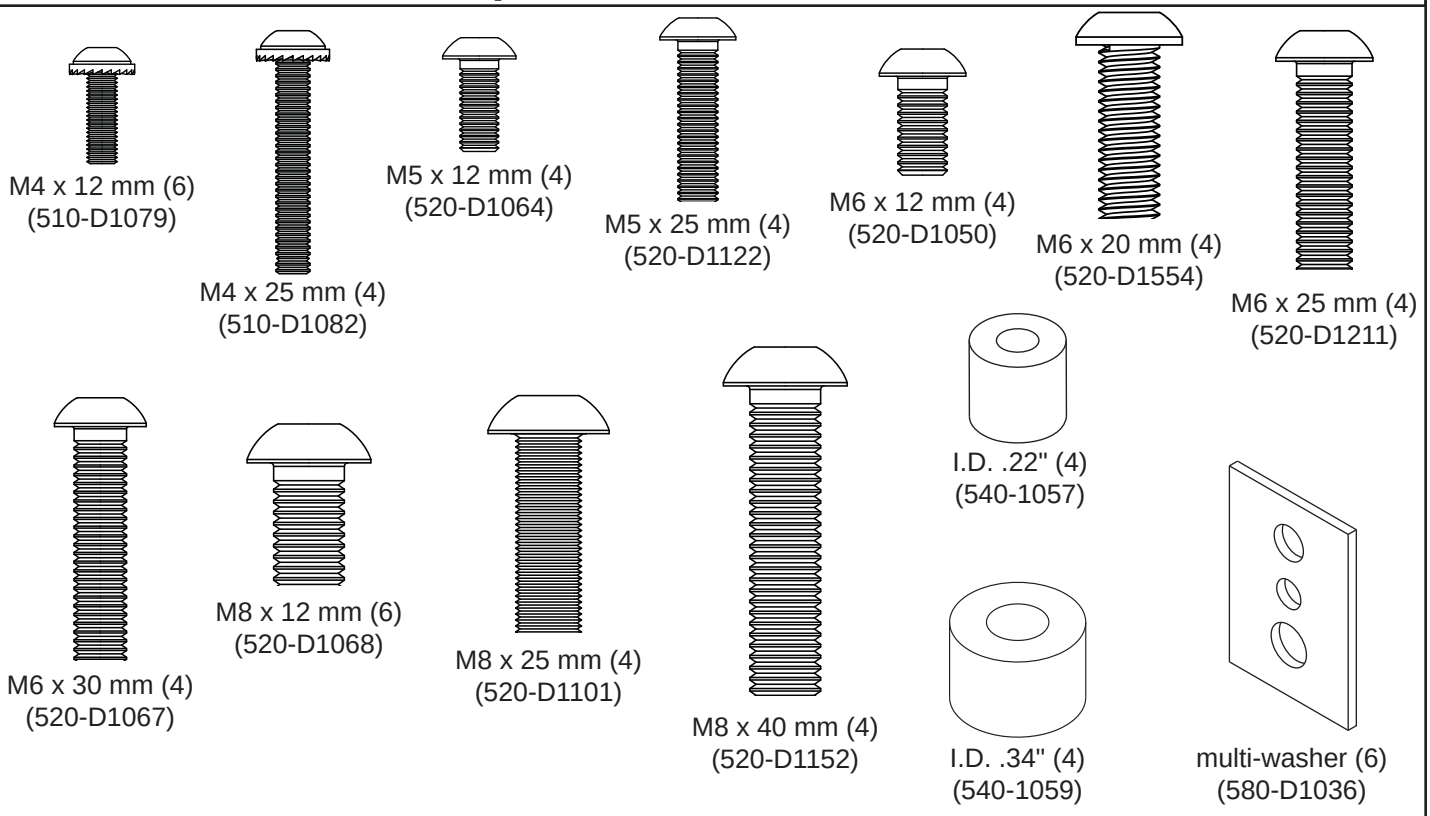
	Description	Qty.	HDS-OWRE-200 Part #
A	wireless receiver enclosure, outdoor	1	180-1018
B	concrete anchor	2	590-0320
C	#14 x 2.5" wood screw	2	520-5033
D	cable tie .187 x 7.5 lg.	2	590-1168
E	cable tie .04 x 5.75 lg.	4	560-9711
F	push-in round plastic plug, 3/8"	4	590-9465
G	1/4-20 x 1/2 socket head screw	6	500-2093
H	lock nut 1/4-20	6	530-5013
I	cable management sheath	1	590-9468
J	enclosure mounting bracket, small	2	120-T1195
K	enclosure mounting bracket, large	2	120-T1196
L	4 mm allen wrench	1	560-9646



Parts may appear slightly different than illustrated.



Adapter Bracket Fasteners



Enclosure Wall Installation

1 Open the wireless receiver enclosure (**A**) and remove the sub panel assembly as shown in fig. 1.1. Choose two holes for securing the wireless receiver enclosure (**A**). Press in plastic plug (**F**) into the four remaining holes shown in figure 1.2.

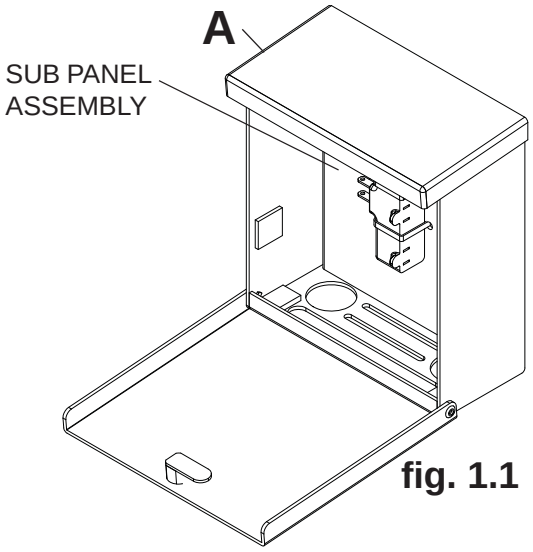


fig. 1.1

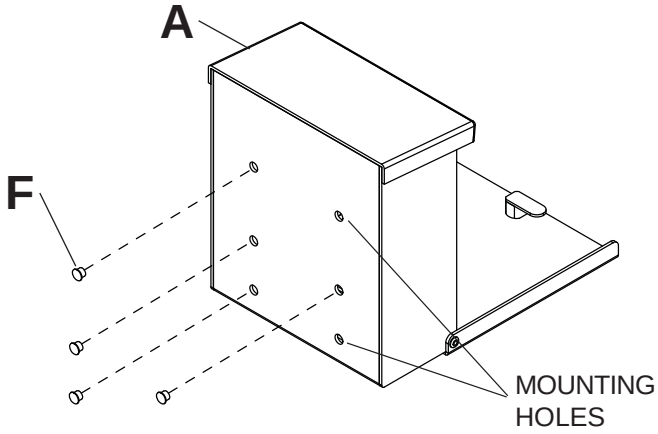


fig. 1.2

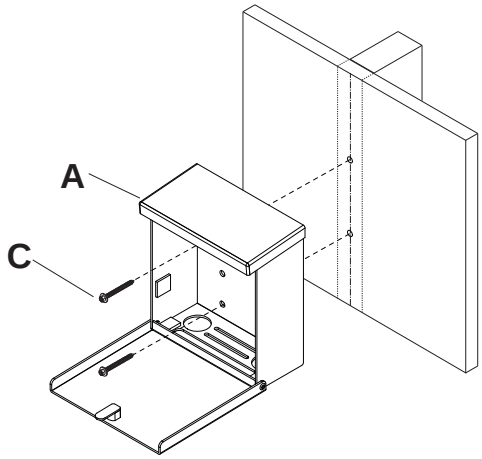
⚠ WARNING

- Installer must verify that the supporting surface will safely support the combined load of the equipment and all attached hardware and components.
- Tighten wood screws so that the enclosure is firmly attached, but do not overtighten. Overtightening can damage the screws, greatly reducing their holding power.
- Never tighten in excess of 80 in. • lb (9 N.M.).
- Make sure that mounting screws are anchored into the center of the stud. The use of an "edge to edge" stud finder is highly recommended.
- Hardware provided is for attachment of mount through standard thickness drywall or plaster into wood studs. Installers are responsible to provide hardware for other types of mounting situations.

Installation to Single Wood Stud Wall

5 Use a stud finder to locate the edges of the stud. Use of an edge-to-edge stud finder is highly recommended. Based on its edges, draw a vertical line down the stud's center. Place enclosure on wall as a template, making sure that two vertical mounting holes are over the stud centerline. Level the enclosure, and mark the center of the two holes. Drill two 5/32" (4mm) dia. holes 2-1/2" (64mm) deep. Make sure that the enclosure is level, secure it using two #14 x 2-1/2" wood screws (**C**) as shown.

Skip to step 7.

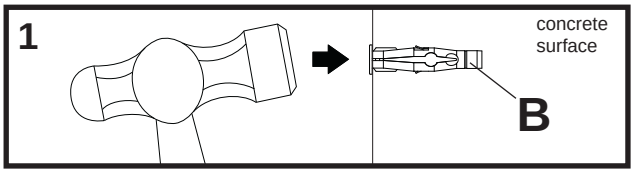


Enclosure Wall Installation to Solid Concrete or Cinder Block

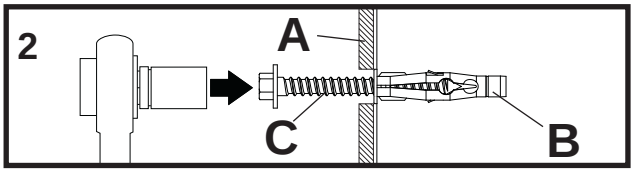
⚠ WARNING

- Verify that you have a minimum of 1-3/8" (35mm) of actual concrete thickness in the hole to be used for the concrete anchors. Do not drill into mortar joints! Be sure to mount in a solid part of the block, generally 1" (25mm) minimum from the side of the block. Cinder block must meet ASTM C-90 specifications. It is suggested that a standard electric drill on slow setting is used to drill the hole instead of a hammer drill to avoid breaking out the back of the hole when entering a void or cavity.
- Concrete must be 2000 psi density minimum. Lighter density concrete may not hold concrete anchor.
- Make sure that the wall will safely support four times the combined load of the equipment and all attached hardware and components.

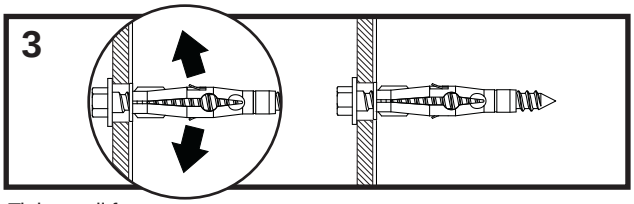
2 Make sure that the enclosure is level, use it as a template to mark two mounting holes. Drill two 5/16" (8mm) dia. holes to a minimum depth of 2-1/2" (64mm). Insert anchors (**B**) in holes flush with wall as shown (right). Place the enclosure over anchors and secure with two #14 x 2-1/2" screws (**C**). Level, then tighten all fasteners.



Drill holes and insert anchors (**B**).



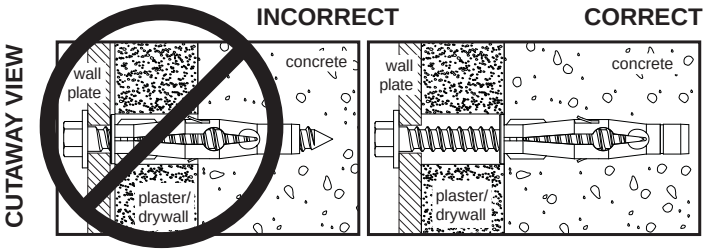
Place enclosure (**A**) over anchors (**B**) and secure with screws (**C**).



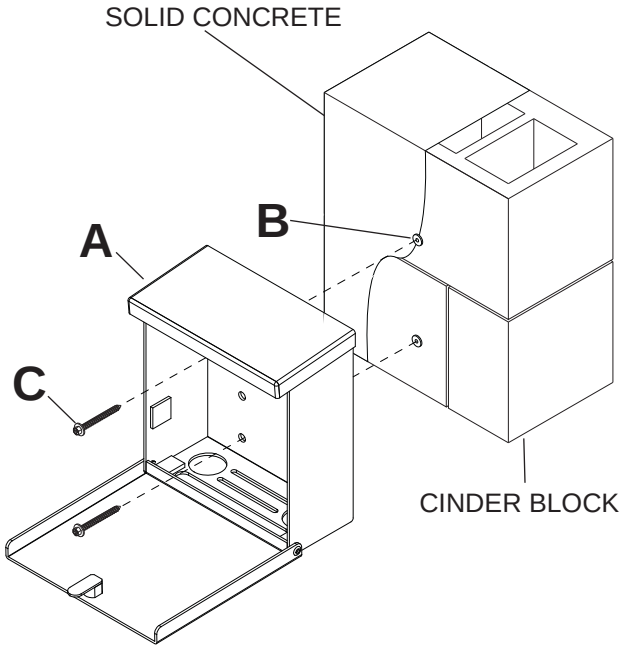
Tighten all fasteners.

⚠ WARNING

- Tighten screws so that wall plate is firmly attached, but do not overtighten. Overtightening can damage screws, greatly reducing their holding power.
- Never tighten in excess of 80 in. • lb (9 N.M.).
- Always attach concrete expansion anchors directly to load-bearing concrete.
- Never attach concrete expansion anchors to concrete covered with plaster, drywall, or other finishing material. If mounting to concrete surfaces covered with a finishing surface is unavoidable, the finishing surface must be counter bored as shown below. Be sure concrete anchors do not pull away from concrete when tightening screws. If plaster/drywall is thicker than 5/8" (16mm), custom fasteners must be supplied by installer.



Skip to step 11.



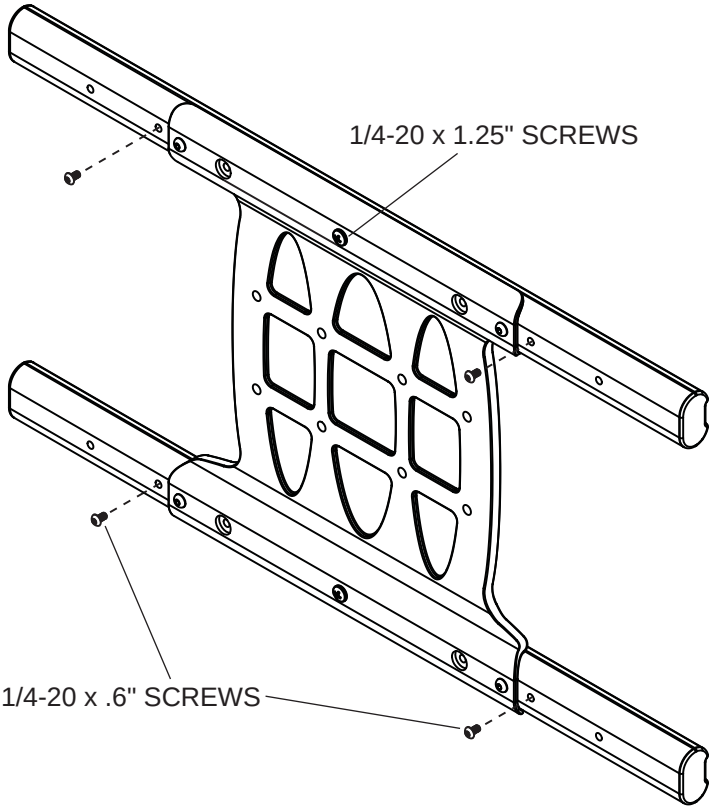
ISSUED: 08-24-12 SHEET #: 180-9030-1

Enclosure Installation to ESA763PU Articulating Wall Mount

NOTE: If display has a VESA 400 horizontal mounting pattern, skip to step 4 on page 8.

NOTE: For VESA 200x200 or VESA 200x100 mount hole patterns, s*kip to step 6 on page 11*.

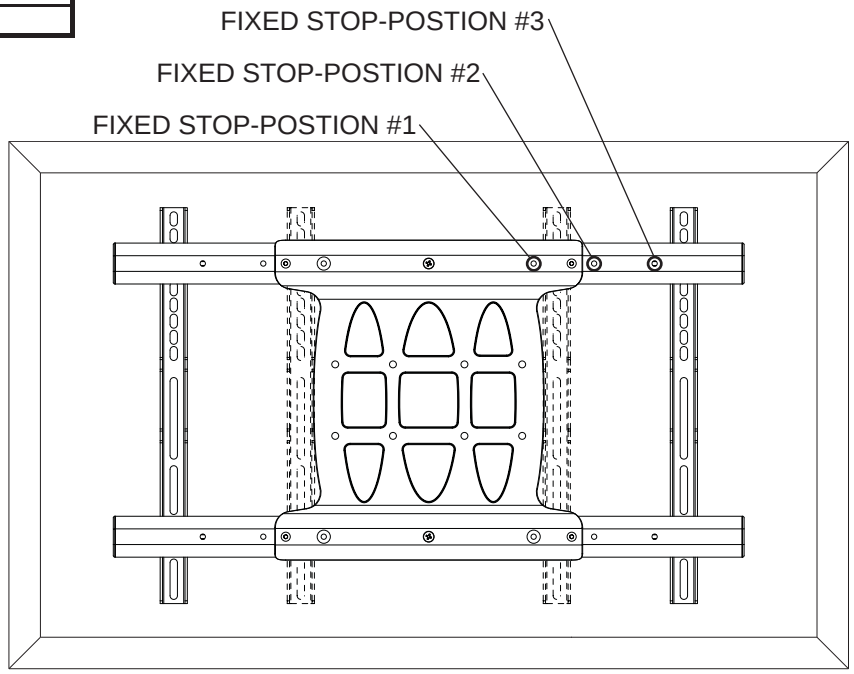
3 Remove four 1/4-20 x .6" screws using a 5 mm allen wrench and loosen two 1/4-20 x 1.25" screws 1/2 turn to allow for display bracket adjustment.



3-1 To prevent scratching the display, set a cloth on a flat, level surface that will support the weight of the display. Place display face side down and refer to display manufacturers instructions for removing obstructions from the back of the display. Adjust display brackets to align with display mounting holes.

Measure horizontal mounting hole pattern and choose fixed stop-position from chart below.

horizontal mounting hole pattern	fixed stop-position
10-3/4" - 16-1/16" (273 - 408 mm)	#1
15-1/16" - 21-9/16" (383 - 548 mm)	#2
20-7/16" - 27-9/16" (519 - 700 mm)	#3



4 Open the wireless receiver enclosure (**A**) and remove the sub panel assembly as shown in fig. 4.1. Loosely attach the small enclosure mounting brackets (**J**) to the wireless receiver enclosure (**A**) with two 1/4-20 x 1/2 socket head screws (**G**) and two 1/4-20 nuts (**H**) as shown in fig. 4.2. **NOTE**: The enclosure mounting bracket can be installed with the inside notch facing downward if additional side-to-side adjustment is needed. Position and tighten the four 1/4-20 x 1/2 socket head screws (**G**) using 4mm allen wrench (**L**). Press in two plastic plugs (**F**) into holes shown in figure 4.2.

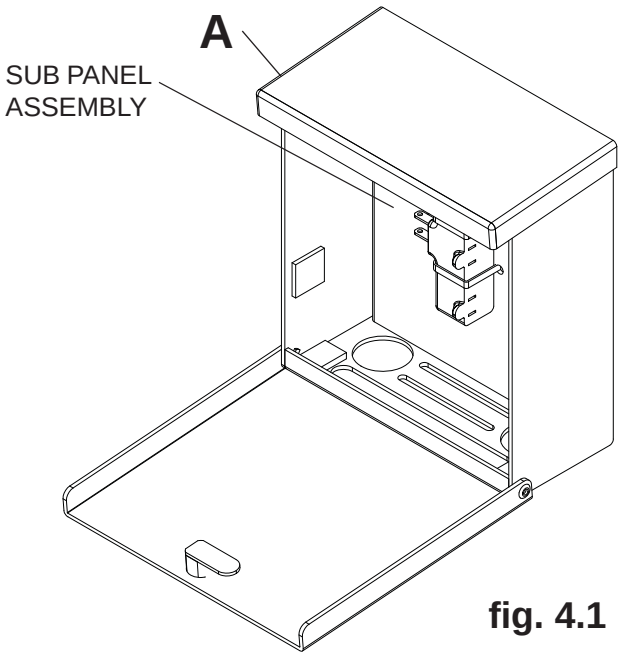


fig. 4.1

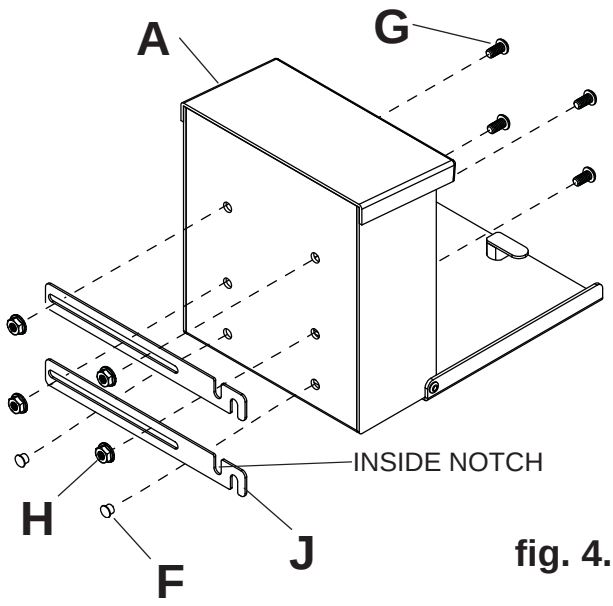


fig. 4.2

5 Attach the mounting brackets (**J**), open end of notch facing downward, to the left display bracket with two 1/4-20 x 1/2 socket head screws (**G**) and two 1/4-20 nuts (**H**) as shown in fig. 5.1.

Adjust the position of the enclosure (**A**) to your desired location as shown in fig. 5.2 Once in position, tighten the four 1/4-20 x 1/2 socket head screws (**G**) using 4mm allen wrench (**L**).

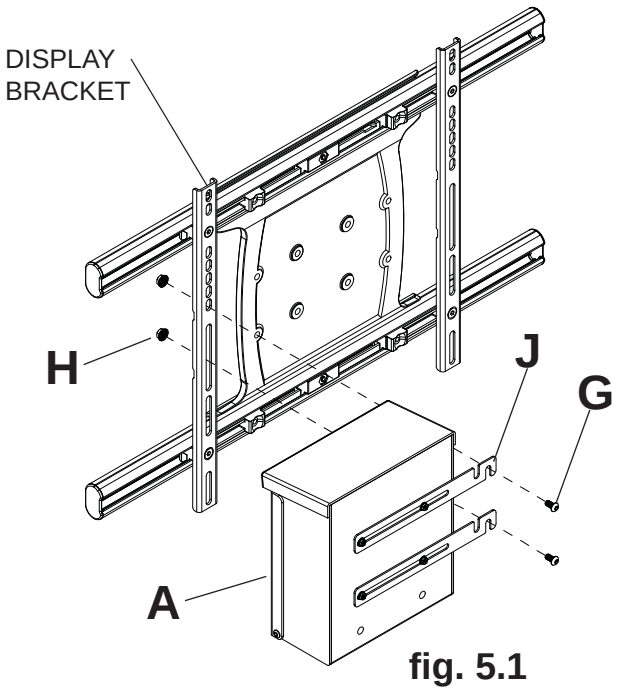


fig. 5.1

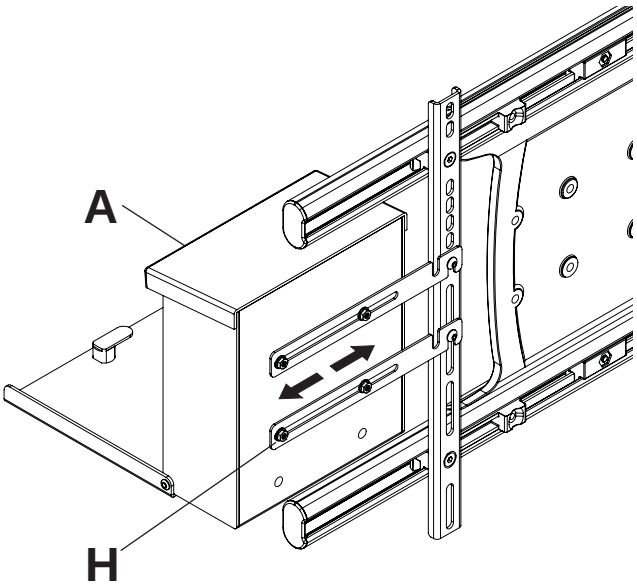


fig. 5.2

Installing Adapter Brackets to Display

⚠ WARNING

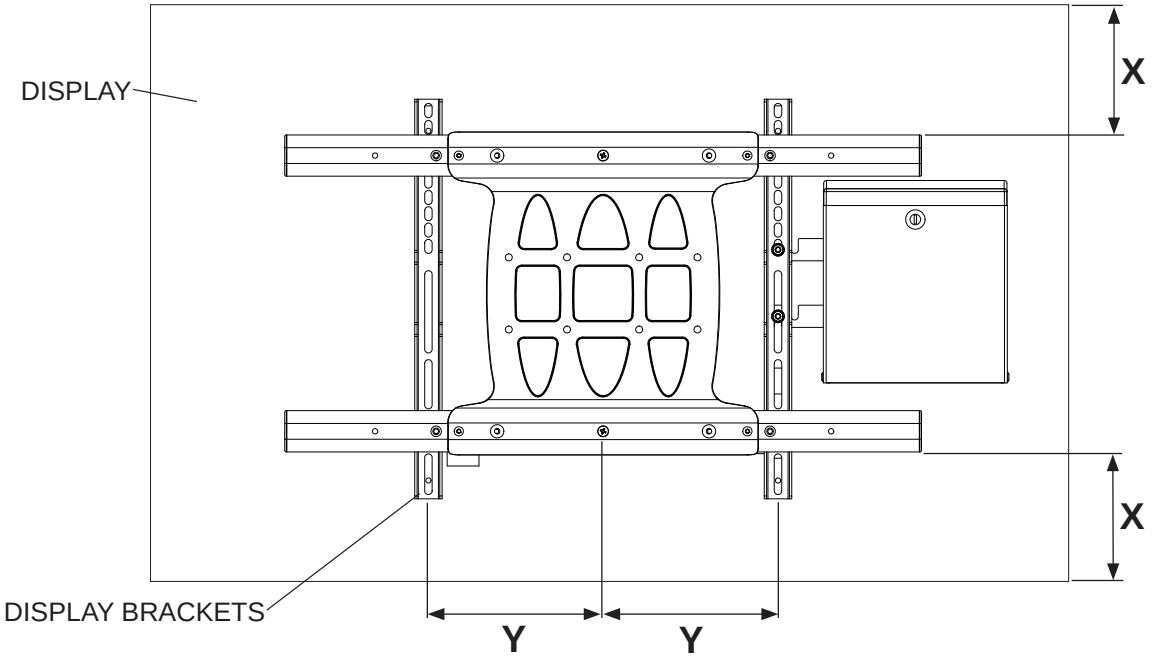
- Tighten screws so display brackets are firmly attached to display. Do not tighten with excessive force. Overtightening can cause stress damage to screws, greatly reducing their holding power and possibly causing screw heads to become detached. Tighten to 40 in. • lb (4.5 N.M.) maximum torque.
- If screws don't get three complete turns in the display inserts or if screws bottom out and bracket is still not tightly secured, damage may occur to display or product may fail.

5-1 Select the screws from the baffled fastener pack that best fit your display and secure to display following step 5-2 on page 10.

NOTE: Top and bottom mounting holes must be used for attaching display brackets. Middle holes should also be used where the fasteners and displays allow.

Verify that all holes are properly aligned, then tighten screws using a phillips screwdriver.

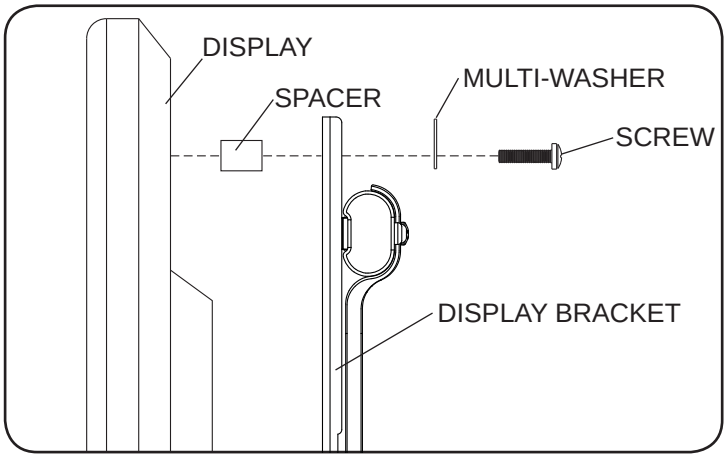
CENTER DISPLAY BRACKETS VERTICALLY AND HORIZONTALLY ON BACK OF DISPLAY



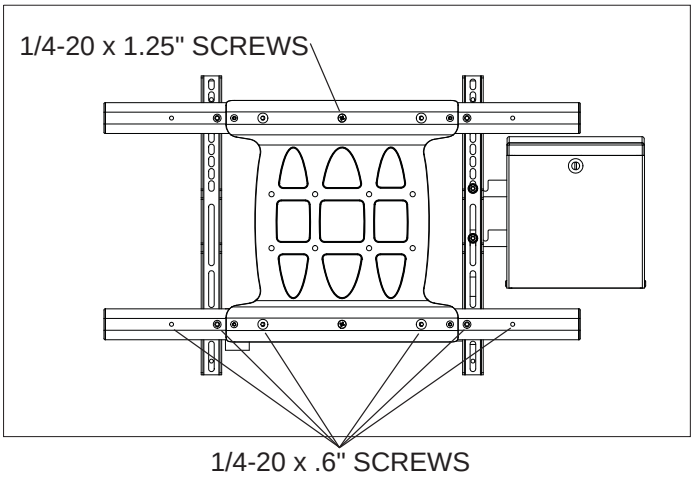
NOTE: "X" dimensions should be equal.
"Y" dimensions should be equal.

NOTE: enclosure removed for clarity.

5-2 Begin with the longest length screw, hand thread screw through multi-washer, display brackets and spacer in that order into display as shown below. Screw must make at least three full turns into the mounting hole and fit snug into place. Do not over tighten. If screw cannot make three full turns into the display, select a shorter length screw from the baffled fastener pack. Repeat for remaining mounting holes, level display brackets and tighten screws.

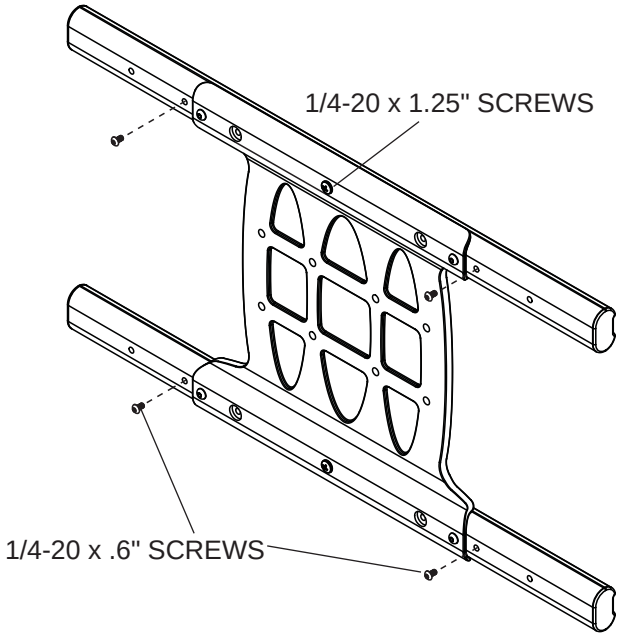


5-3 Center display brackets horizontally and vertically on back of display. Tighten two 1/4-20 x 1.25" screws. Reinstall four 1/4-20 x .6" screws using a 5 mm allen wrench into appropriate fixed-stop position from chart on page 7.



Enclosure Installation to ESA763PU Articulating Wall Mount
VESA 200 x 200 or VESA 200 x 100 Mounting Pattern

6 Remove four 1/4-20 x .6" screws using a 5mm allen wrench and loosen two 1/4-20 x 1.25" screws 1/2 turn to allow for display bracket adjustment.



6-1 Remove four 1/4-20 self tapping screws to detach display brackets from outer mount holes of the universal adapter bracket using a 5mm allen wrench as shown in figure 6.1. Reinstall four 1/4-20 self tapping screws to secure display brackets to inner set of mounting holes on the universal adapter bracket as shown in figure 6.2.

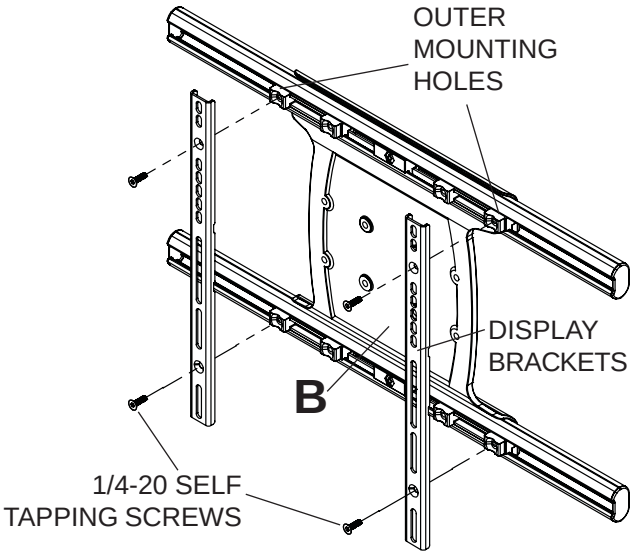


fig. 6.1

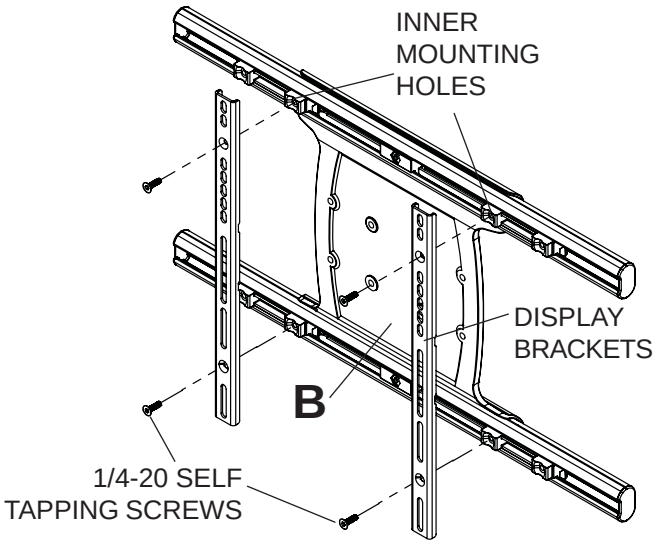
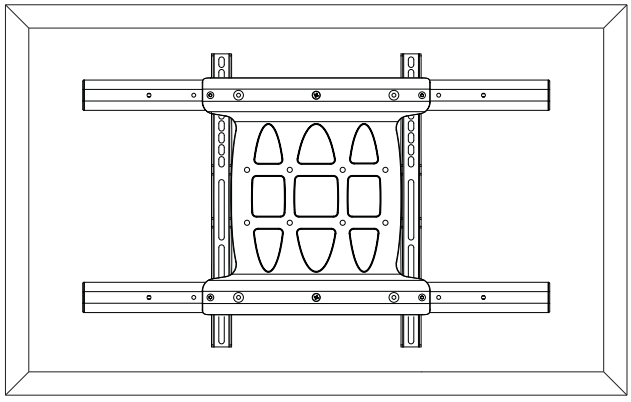


fig. 6.2

To prevent scratching the display, set a cloth on a flat, level surface that will support the weight of the display. Place display face side down and place the universal adapter bracket onto display.



6-2 Open the wireless receiver enclosure (**A**) and remove the sub panel assembly as shown in fig. 6.3. Loosely attach the large enclosure mounting brackets (**K**) to the wireless receiver enclosure (**A**) with two 1/4-20 x 1/2 socket head screws (**G**) and two 1/4-20 nuts (**H**) as shown in fig. 6.4. **NOTE**: The enclosure mounting bracket can be installed with the inside notch facing downward if additional side-to-side adjustment is needed. Position and tighten the four 1/4-20 x 1/2 socket head screws (**G**) using 4mm allen wrench (**L**). Press in two plastic plugs (**F**) into holes shown in figure 6.4.

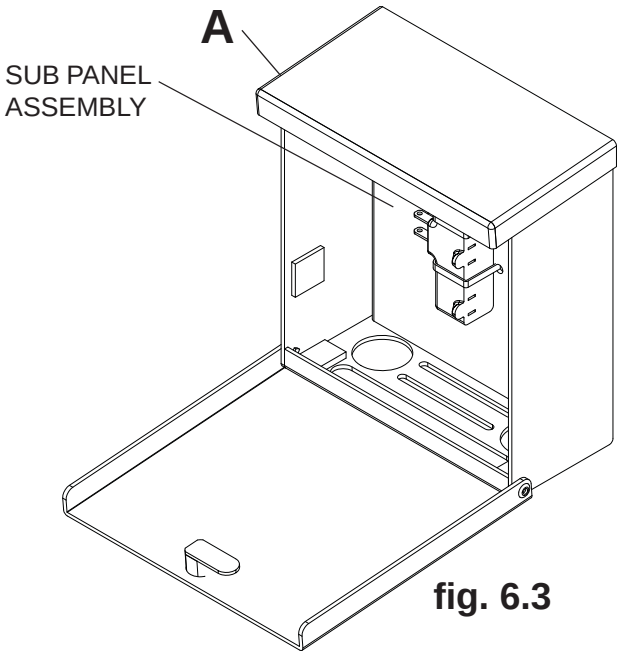


fig. 6.3

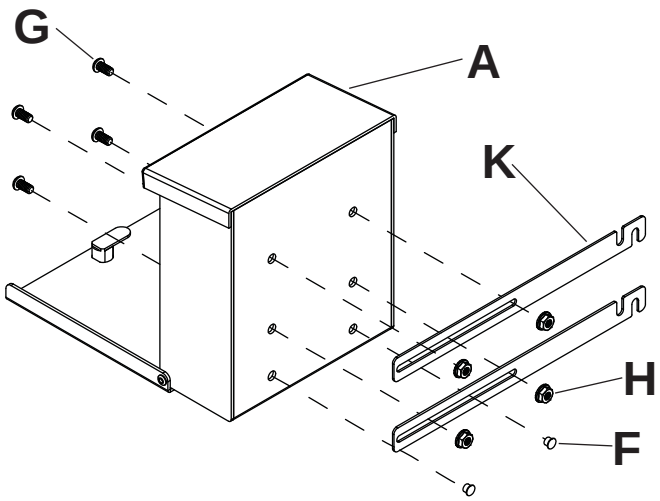


fig. 6.4

6-3 Slide universal adapter bracket to the side to expopse the display bracket mounting slots. Attach the mounting brackets (**K**), open end of notch facing downward, to the left display bracket with two 1/4-20 x 1/2 socket head screws (**G**) and two 1/4-20 nuts (**H**) as shown in fig. 6.5.

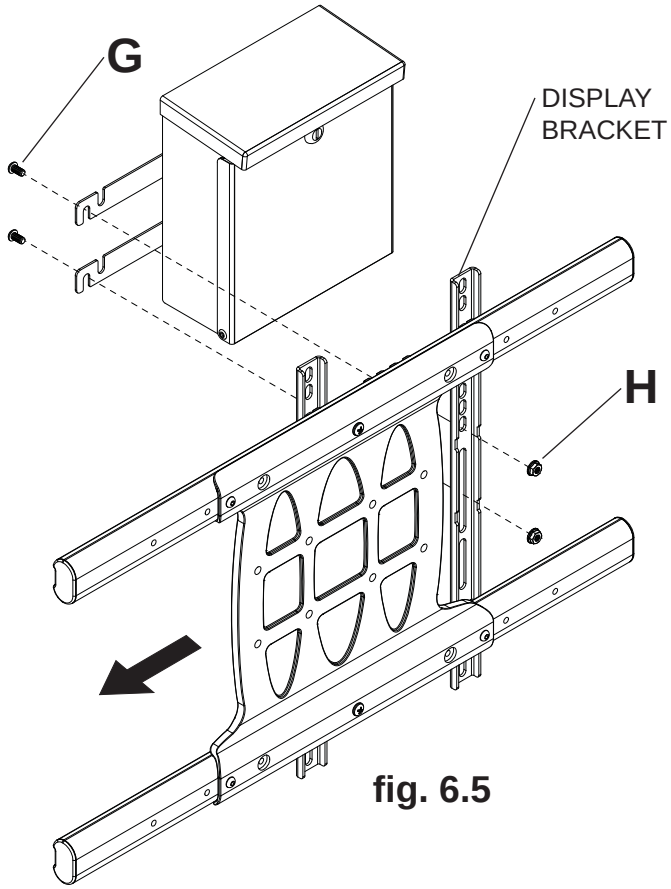
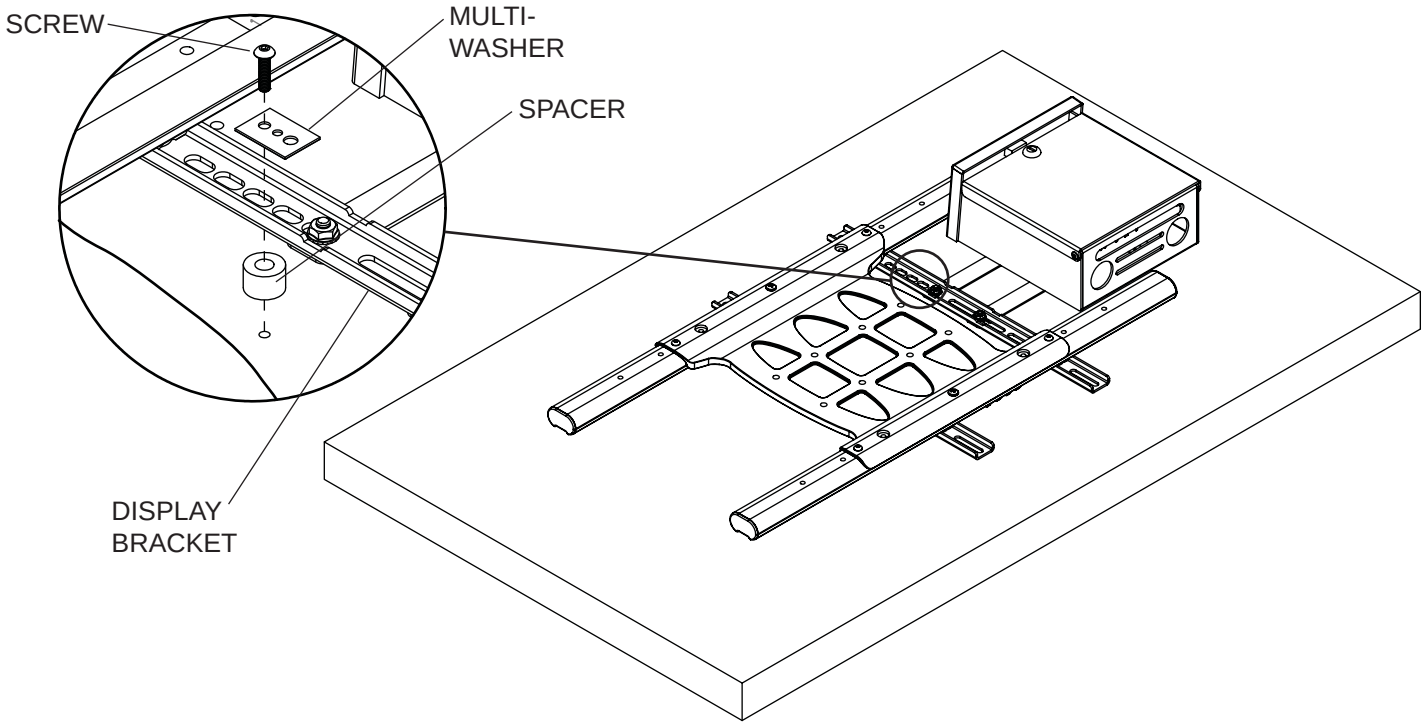
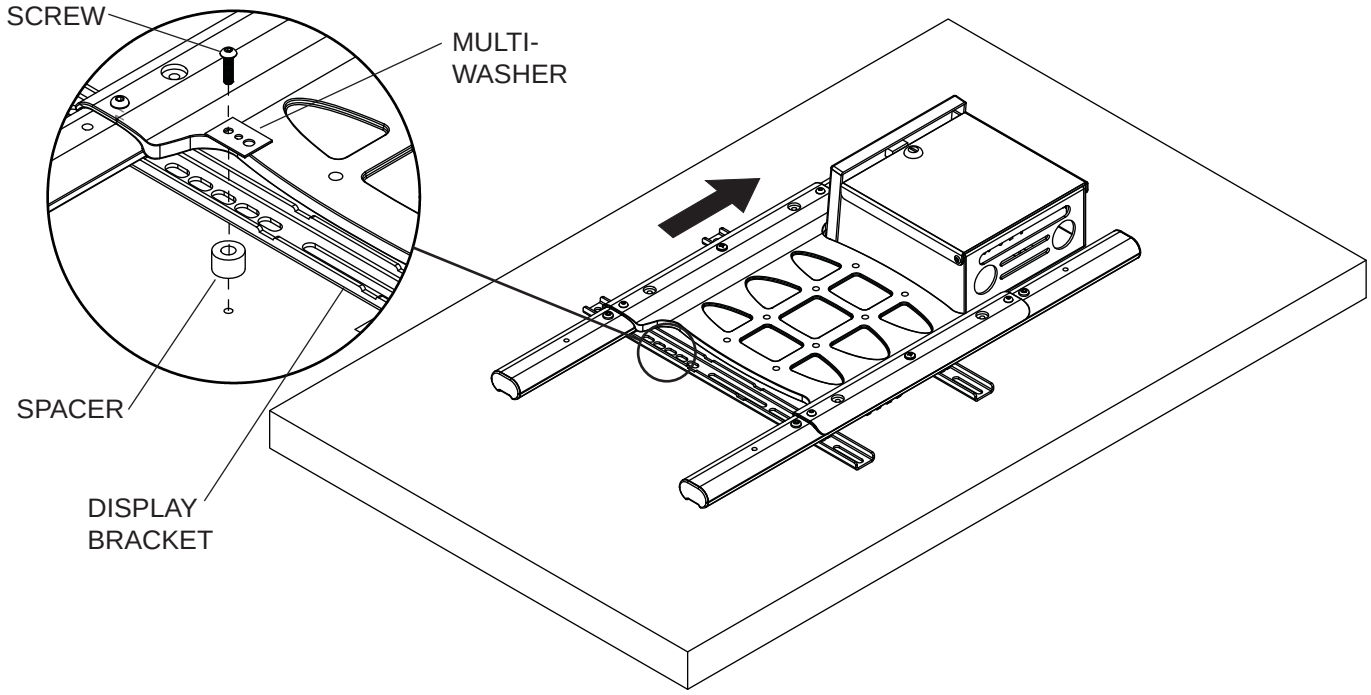


fig. 6.5

6-4 Align one display bracket with one set of display mounting holes. Place spacers between display bracket and display. Begin with the longest length screw, hand thread screw through the multi-washer, display brackets, and spacer into display as shown. Screw must make at least three full turns into the mounting hole and fit snug into place. Do not over tighten. If screw cannot make three full turns into the display, select a shorter length screw from the baffled fastener pack. Center display brackets vertically and tighten screws.



6-5 Slide universal adapter bracket to the opposite side to expopse the display bracket mounting slots. Place spacers between display bracket and display. Begin with the longest length screw, hand thread screw through the multi-washer, display brackets, and spacer into display as shown. Screw must make at least three full turns into the mounting hole and fit snug into place. Do not over tighten. If screw cannot make three full turns into the display, select a shorter length screw from the baffled fastener pack. Center display brackets vertically and tighten screws.



6-6 Center the universal adapter bracket horizontally on back of display as shown in figure 6.6.

Tighten two 1/4-20 x 1.25" screws. Reinstall four 1/4-20 x .6" screws using a 5 mm allen wrench into fixed-stop position 1 as shown in figure 6.7.

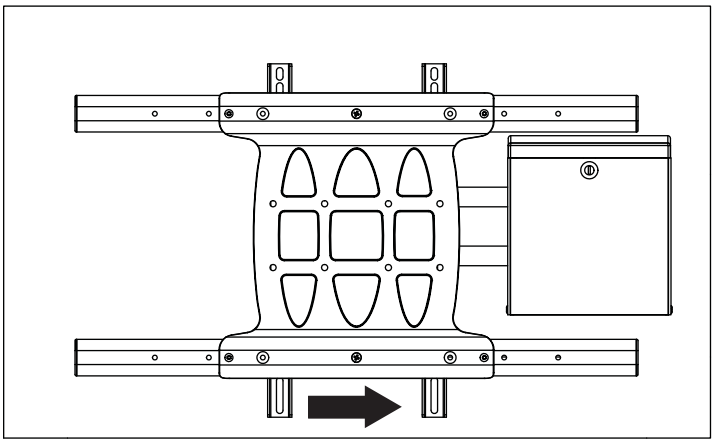


fig. 6.6

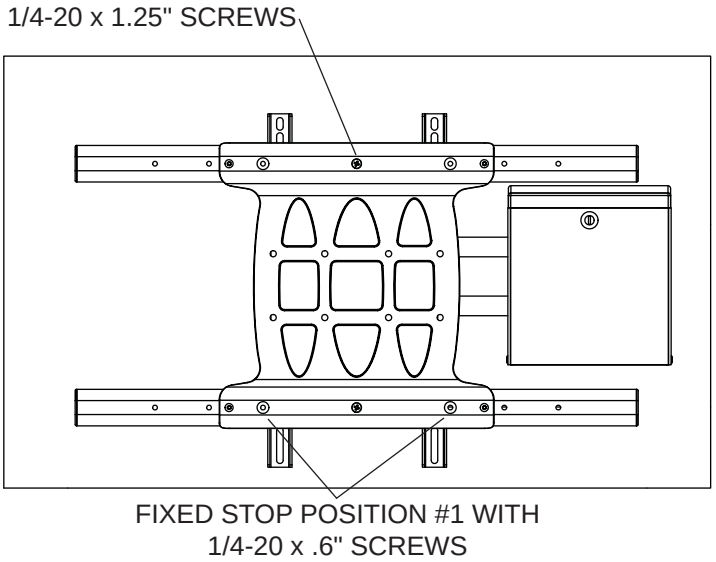


fig. 6.7

6-7 Adjust the position of the enclosure (**A**) to your desired location as shown in fig. 6.8 Once in position, tighten the four 1/4-20 x 1/2 socket head screws (**G**) shown in fig. 6.8 using 4mm allen wrench (**L**) and a 7/16" open end wrench.

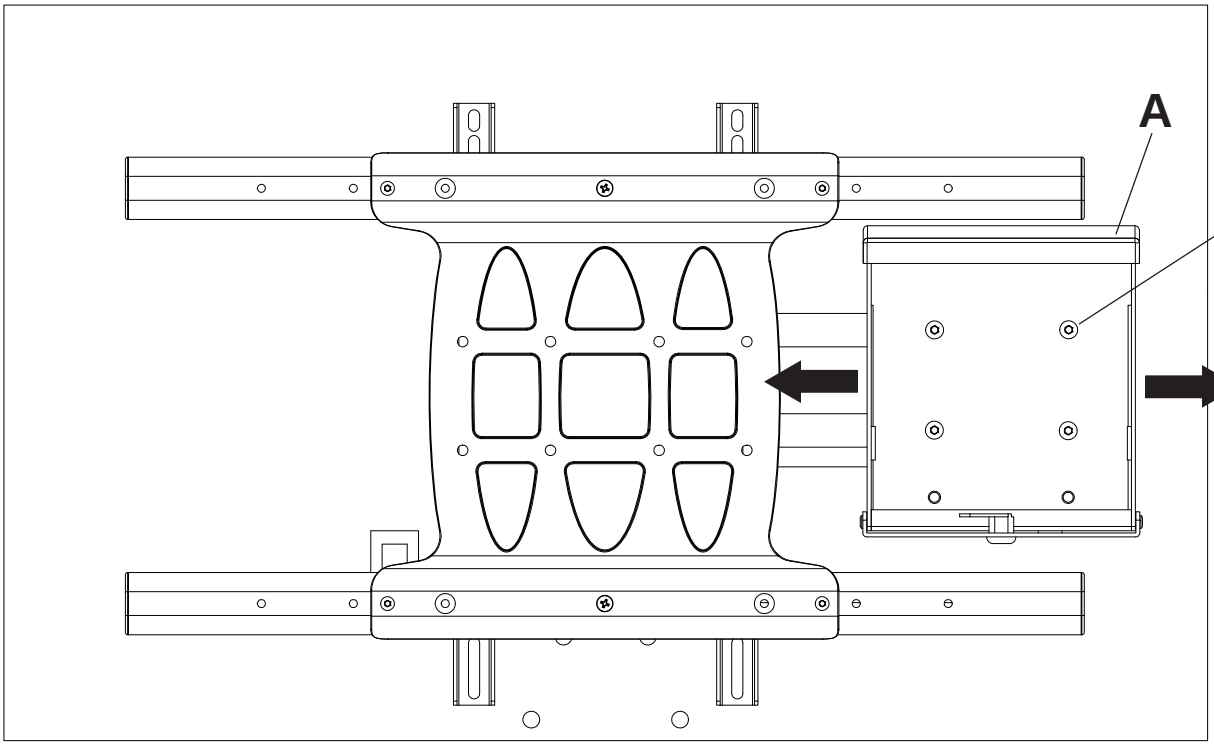


fig. 6.8

⚠ WARNING

- Do not lift more weight than you can handle. Use additional man power or mechanical lifting equipment to safely handle placement of the display.
- Do not tighten screws with excessive force. Overtightening can cause damage to mount. Tighten M10 x 15 mm screws to 40 in. • lb. (4.52 N.M.) maximum torque.

Mounting Flat Panel Display

7 Hook M10 x 15 mm screws into keyslots of wall arm adapter plate as shown figure 7.1.

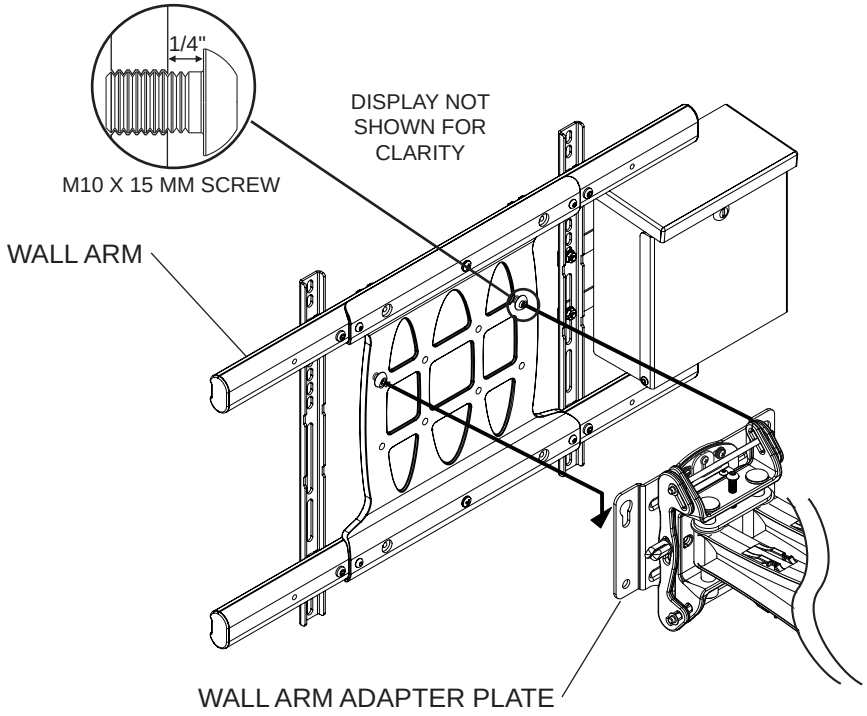


fig. 7.1

7-1 Insert two M10 x 15 mm screws (included with wall arm) into bottom holes of adapter plate as shown in figure 7.2. Tighten all fasteners with a 6 mm allen wrench.

Skip to step 11.

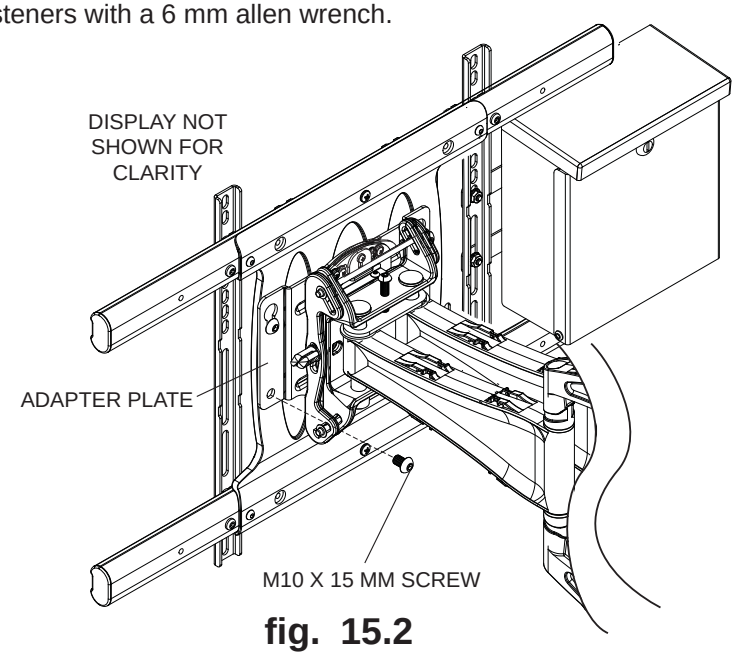


fig. 15.2

Enclosure Installation to EPT650 Tilt Wall Mount

8 Open the wireless receiver enclosure (**A**) and remove the sub panel assembly as shown in fig. 8.1. Loosely attach the small enclosure mounting brackets (**J**) to the wireless receiver enclosure (**A**) with two 1/4-20 x 1/2 socket head screws (**G**) and two 1/4-20 nuts (**H**) as shown in fig. 8.2. **NOTE**: The enclosure mounting bracket can be installed with the inside notch facing downward if additional side-to-side adjustment is needed. Position and tighten the four 1/4-20 x 1/2 socket head screws (**G**) using 4mm allen wrench (**L**). Press in two plastic plugs (**F**) into holes shown in figure 8.2.

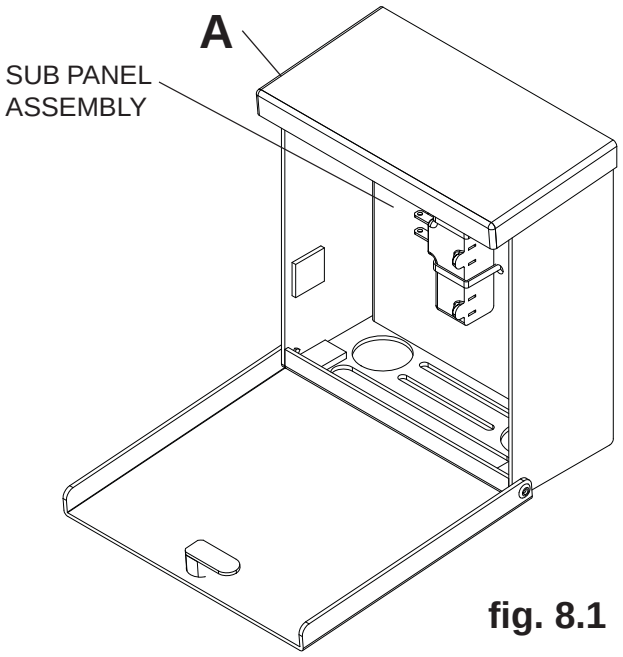


fig. 8.1

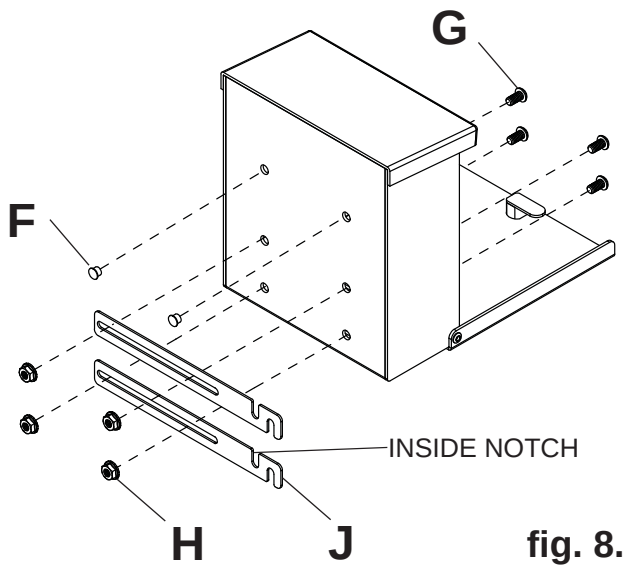


fig. 8.2

9 Attach the mounting brackets (**J**), open end of notch facing downward, to the left tilt bracket with two 1/4-20 x 1/2 socket head screws (**G**) and two 1/4-20 nuts (**H**) as shown in fig. 9.1. Adjust the position of the enclosure (**A**) to your desired location and tighten the four 1/4-20 x 1/2 socket head screws (**G**) using 4mm allen wrench (**L**).

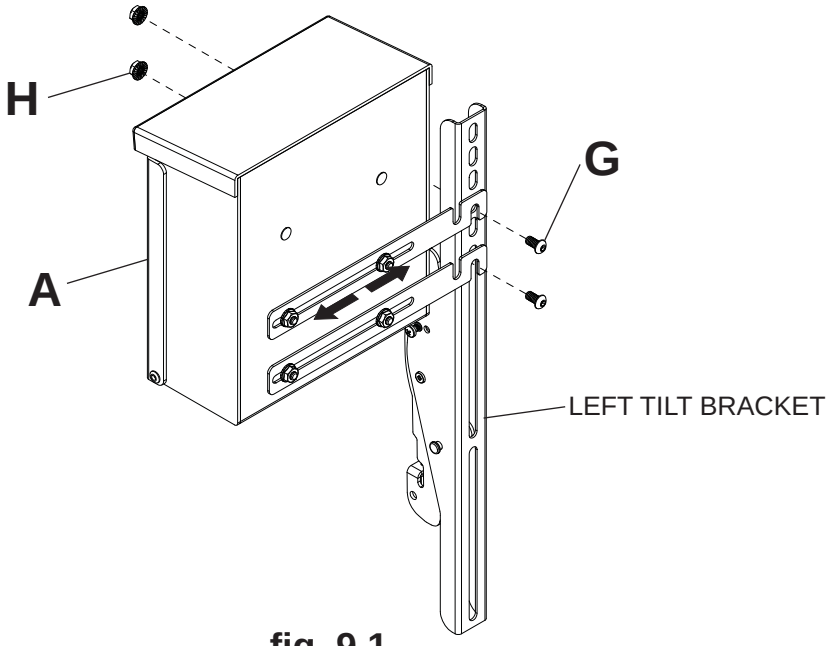


fig. 9.1

Installing Tilt Brackets

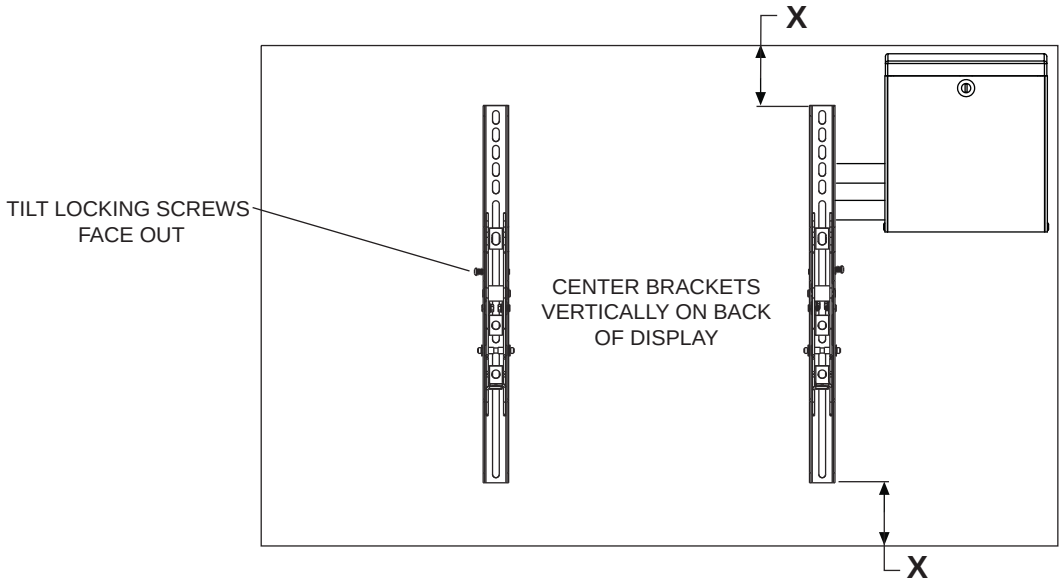
⚠ WARNING

- Tighten screws so adapter brackets are firmly attached. Do not tighten with excessive force. Overtightening can cause stress damage to screws, greatly reducing their holding power and possibly causing screw heads to become detached. Tighten to 40 in. • lb (4.5 N.M.) maximum torque.
- If screws don't get three complete turns in the display inserts or if screws bottom out and bracket is still not tightly secured, damage may occur to display or product may fail.

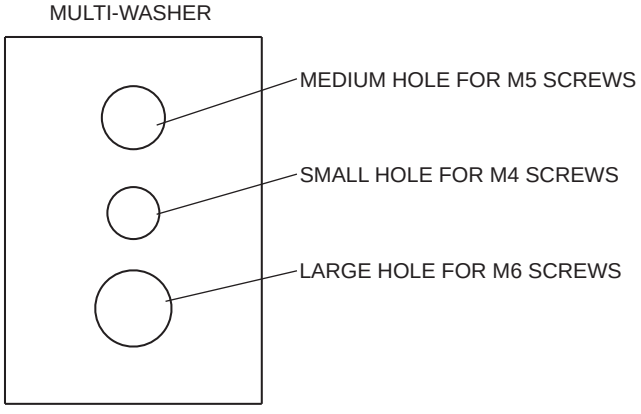
10 To prevent scratching the display, set a cloth on a flat, level surface that will support the weight of the display. Place display face side down. If display has knobs on the back, remove them to allow the adapter brackets to be attached. Place adapter brackets on back of display, align to holes, and center on back of display as shown below. Attach the adapter brackets to the back of the display using the appropriate combination of screws, multi-washers, and spacers as shown in figure 10.1.

NOTE: Top and bottom mounting holes on display must be used for attaching brackets.

NOTE: Be sure to attach tilt brackets with tilt locking screws facing outward as shown below. Verify that all holes are properly aligned, and then tighten screws using a phillips screwdriver.



NOTE: "X" dimensions should be equal.



Notes:

- The number of fasteners used will vary, depending upon the type of display.
- Multi-washers and spacers may not be used, depending upon the type of display.
- Use the corresponding hole in the multi-washer that matches your screw size as shown.

10-1 Begin with longer length screw, hand thread through multi-washer, tilt bracket and spacer in that order into display as shown below. Screw must make at least three full turns into the mounting hole and fit snug into place. Do not over tighten. If screw cannot make three full turns into the display, select a longer length screw from the baffled fastener pack. Repeat for remaining mounting holes, level brackets and tighten screws.

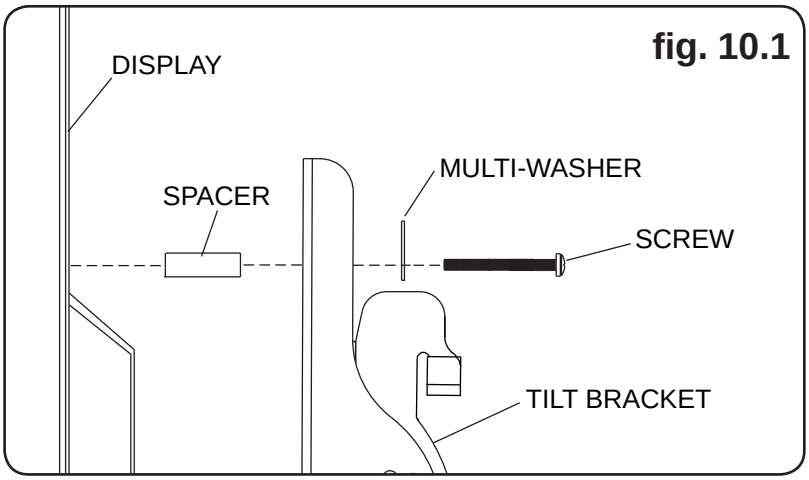
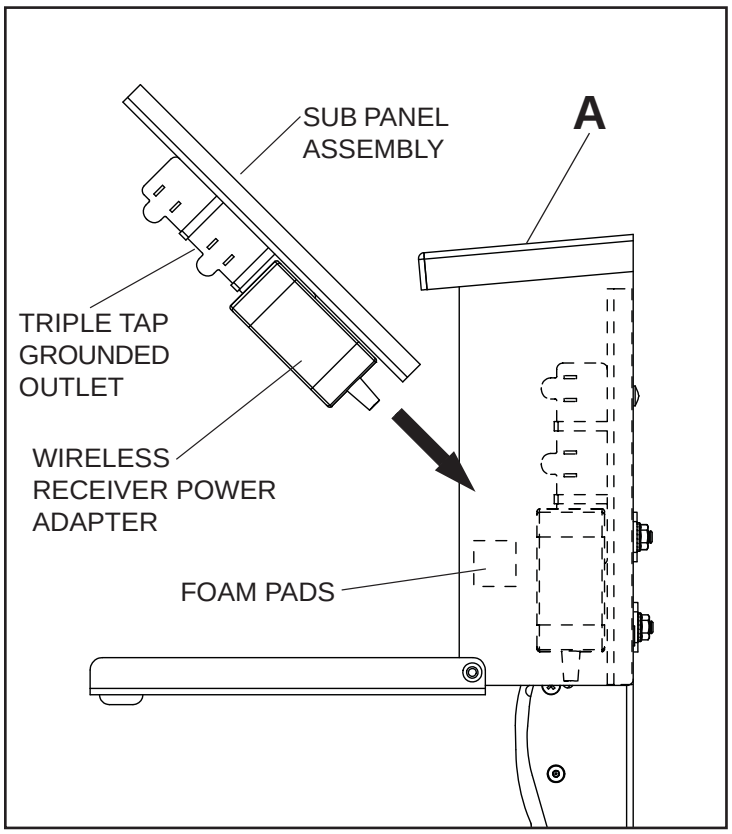


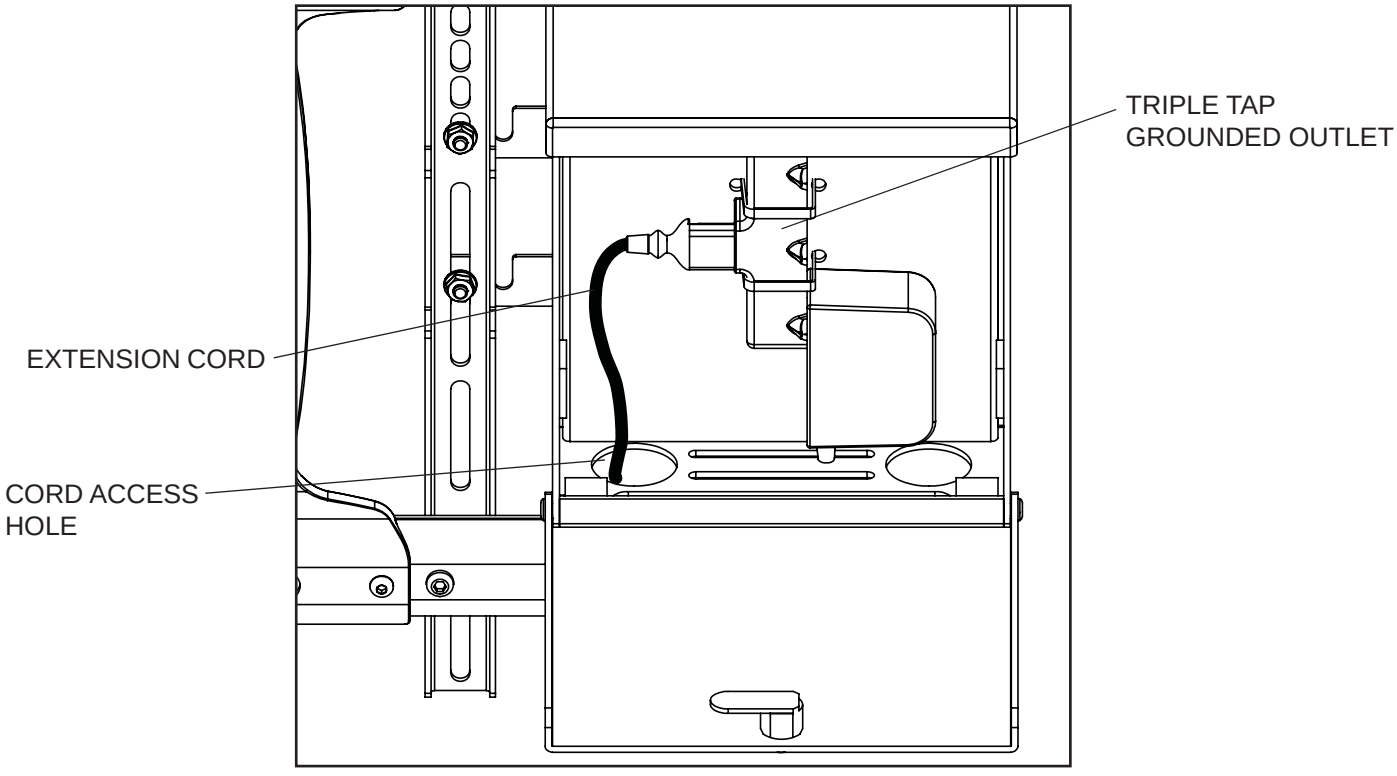
fig. 10.1

If you have any questions, please call Peerless customer care at **1-800-865-2112**.

Wireless Receiver Setup (Receiver Not Included)

11 Plug in the wireless receiver power adapter into the triple tap grounded outlet as shown. Insert an extension cord (not included) through the cord access hole in the bottom of the enclosure as shown. Plug entension cord into the triple tap grounded outlet. Insert the sub panel assembly into the wireless receiver enclosure (**A**) above the foam pads as shown. Push the sub panel assembly down and towards the rear of the until it makes contact with the back wall and the bottom of the enclosure.





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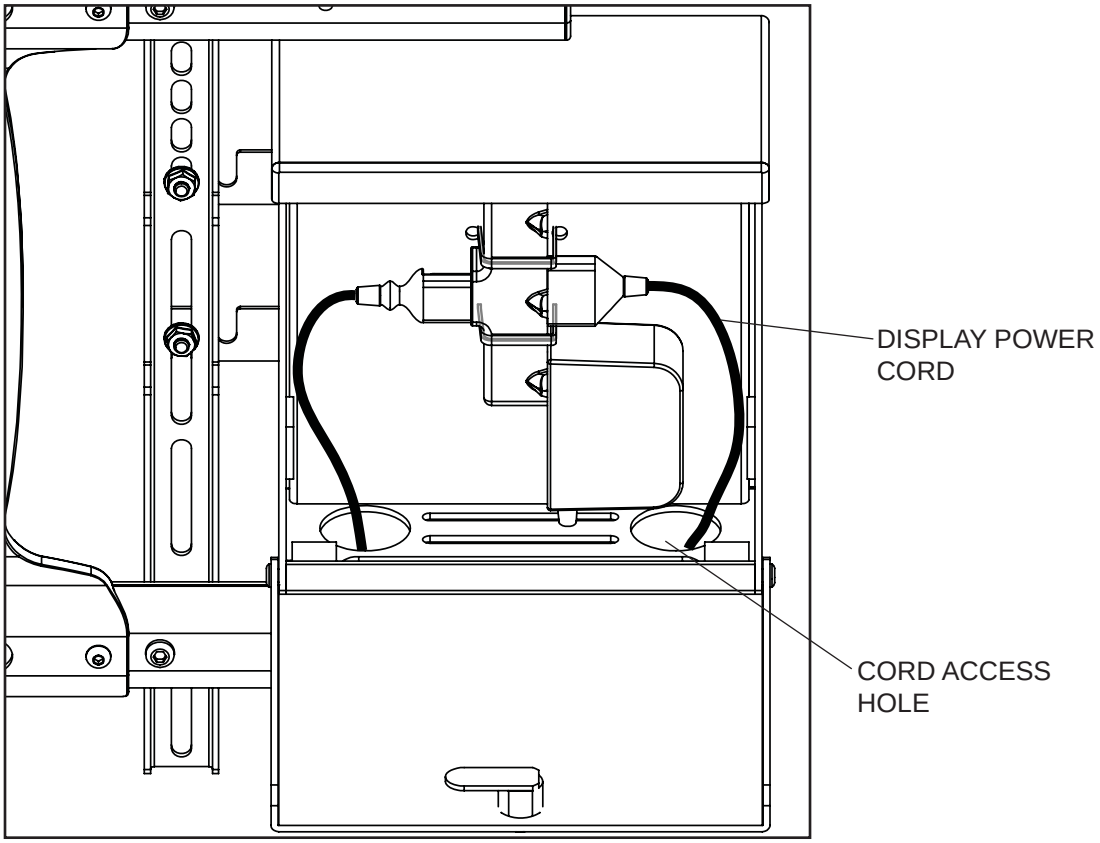
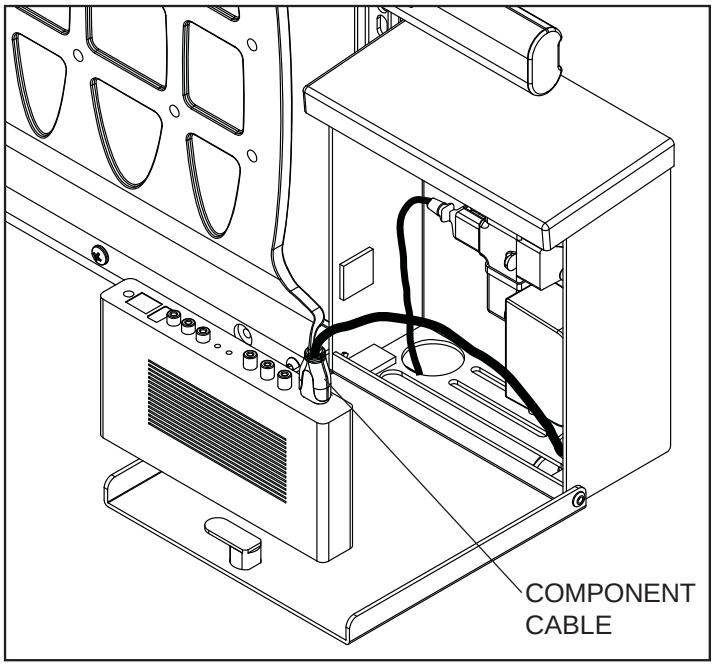
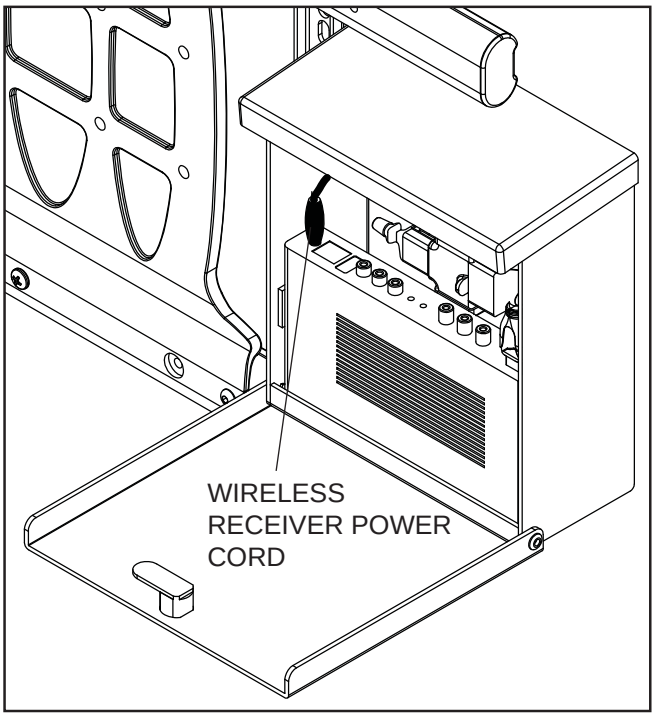
12 Insert the power cord from your display through the cord access hole in the bottom of the enclosure as shown. Plug the power cord into the triple tap grounded outlet. Coil up the excess cord and secure with a cable tie (**E**). Store excess cord inside enclosure.



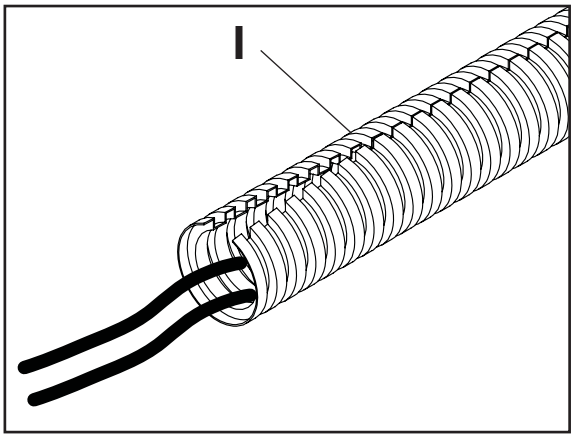
13 Insert your component cable(s) (HDMI shown) from your display through the cord access hole in the bottom of the enclosure as shown and plug into the wireless receiver. Coil up the excess cord and secure with a cable tie (**D**). Store excess cord inside enclosure.



14 Plug the wireless receiver power cord into the wireless receiver. Position the wireless receiver into the enclosure as shown, then close the elosure door. Door may be locked with key provided if desired.



15 Place the component cord(s) inside the cable management sheath (**I**) by pushing the cables through the slit in the sheath. **NOTE**: The sheath may need to be trimmed to length before installing cords.



16 Plug extension cord into power source.

To complete the installation of your wireless system, please refer to the HD Flow™ User's Manual and the HD Flow™ Install Guide included.

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Furniture	1 year
Cables	25 years
Cleaning Products	1 year
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